

GRAIN DIVISION
PLANT VARIETY PROTECTION OFFICE
NATIONAL AGRICULTURAL LIBRARY
BELTSVILLE, MARYLAND 20705

APPLICATION F	OR PLANT V	ARIFTY D	BOTECTION (	PERTIFICATE
	OU LEWIN A	VANIGITE	NOLECTION (	JERLIFIGALE

INSTRUCTIONS: See Reverse.	TOTAL EATER	AMELITATOLEG	ION CLAIT ICAT	<b>E</b>	
1a. TEMPOPARY DESIGNATION OF VARIETY	1b. VARIETY NAME		FOR OFFICIAL USE ONLY		
VANIELI	K-77		7800015		
2. KIND NAME	3. GENUS AND SPECIES NAME		FILING DATE 12.29.71	Z:00 A.M.	
Soybe an	GLYCINE MAX		FEE RECEIVED	DATE	
4. FAMILY NAME (BOTANICAL)	5. DATE OF DET	ERMINATION	\$250.00	12.29.77	
LEGUMINOSE	(9/69)	)	\$250.00	12.29.77	
6. NAME OF APPLICANT(S)	7. ADDRESS (Stre Code)	7. ADDRESS (Street and No. or R.F.D. No., City, State, and		8. TELEPHONE AREA CODE AND NUMBER	
KENNETH G. NIXON (NIXON SEED CO.) AND LEONARD & MARK KRIETEME	R.F.D. 2, MANSFIELD, OHIO 44903 419-589-3122				
9. IF THE NAMED APPLICANT IS NOT A PLORGANIZATION: (Comporation, partnership	ERSON, FORM OF D, Association, etc.)	10. IF INCORPORAT DATE OF INCOR	ED, GIVE STATE AND PORATION	11. DATE OF INCOR- PORATION	
12. Name and mailing address of appli	cant representativ	re(s), if any, to serve	in this application as	nd receive all papers:	
13. CHECK BOX BELOW FOR EACH ATTAC 13A. Exhibit A, Origin and Bree 13B. Exhibit B, Novelty Statem 13C. Exhibit C, Objective Descr 13D. Exhibit D, Additional Des	eding History of the nent. ription of the Variet	Variety (See Section 52 y (Request form from I	•	•	
14A. Does the applicant(s) specify that se (See Section 83(a). (If "Yes," answ	eed of this variety be ver 14B and 14C bel	e sold by variety name o	only as a class of certifie	ed seed?	
14B. Does the applicant(s) specify that this variety be limited as to number of generations?  14C. If "Yes," to 14B, how many generations of production beyond breeder seed?					
<del></del>	YES NO	X FOUNDATION	REGISTERED	XCERTIFIED	
16. Does the applicant(s) agree to the publication of his/her (their) name(s) and address in the Official Journal?					
16. The applicant(s) declare(s) that a viable sample of basic seed of this variety will be deposited upon request before issuance of a certificate and will be replenished periodically in accordance with such regulations as may be applicable.					
The undersigned applicant(s) is (are) the owner(s) of this sexually reproduced novel plant variety, and believe(s) that the variety is distinct, uniform, and stable as required in Section 41, and is entitled to protection under the provisions of Section 42 of the Plant Variety Act.					
Applicant(s) is (are) informed that false representation herein can jeopardize protection and result in penalties.					
12/5/ <b>7</b> 7		Kenn	(SIGNATURE OF ARRIVE	yon	
/2 - 7 - 77		Leongan	L Truten	very 1 _	
(DATE)	<del>_</del>	1/unp	(SIGNATURE OF APPLI	CANT)	

#### INSTRUCTIONS

GENERAL: Send an original copy of the application, exhibits and \$250.00 fee to U.S. Dept. of Agriculture, Agricultural Marketing Service, Grain Division, National Agricultural Library, Beltsville, Maryland 20705. (See Section 180.175 of the regulations and rules of practice.) Retain one copy for your files. All items on the face of the form are self-explanatory unless noted below.

### ITEM

- Give the date the applicant determined that he had a new variety based on (1) the definition in Section 41(a) of the Act and (2) the date a decision was made to increase the seed.
- Give (1), the genealogy, including public and commerical varieties, lines, or clones used, and the breeding method. (2), the details of subsequent stages of selection and multiplication. (3), the type and frequency of variants during reproduction and multiplication and state how these variants may be identified and (4), evidence of stability.
- Give a summary statement of the variety's novelty. Clearly state how this novel variety may be distinguished from all other varieties in the same crop. If the new variety most closely resembles one or a group of related varieties; (1) identify these varieties and state all differences objectively; (2) Attach statistical data for characters expressed numerically and demonstrate that these differences are significant; and (3) submit, if helpful, seed and plant specimens or photographs of seed and plant comparisons clearly indicating novelty.
- 13c Fill in the Exhibit C, Objective Description form for all characteristics, for which you have adequate data.
- Describe any additional characteristics that are not described, or whose description cannot be accurately conveyed in Exhibit C.

  Use comparative varieties as is necessary to reveal more accurately the description of characteristics that are difficult to describe; such as; plant habit, plant color, disease resistance, etc.
- 14A If "YES" is specified (seed of this variety be sold by variety name only as a class of certified seed) the applicant may NOT reverse his affirmative decision after the variety has either been sold and so labeled or published or the certificate has been issued. However, if the applicant specifies "NO", he may change his choice. (See Section 180.15 of the Regulations and Rules of Practice.)

PV No. 7800015 SOYBEAN

EXHIBIT A

'K-77' WAS DERIVED FROM A SELECTION OF FIVE PLANTS FROM A FIELD OF CERTIFIED 'CORSOY'. THIS SELECTION PRODUCED SEED WITH BOTH BUFF AND CLEAR HILA. BOTH WERE INCREASED IN SEPARATE PLOTS AND THE FINAL SELECTION WAS MADE EXCLUSIVELY FROM PLOTS PRODUCING SEED WITH CLEAR HILA.

THERE IS UP TO 0.05% BROWN OR BUFF HILUM. THIS HILUM COLOR VARIANT APPEARS TO BE STABLE AND WILL REPRODUCE NOT TO EXCEED 0.05%, ACCORDING TO EVALUATION BY ROY BECKER AND DAVE DENNISON OF THE OHIO SEED IMPROVEMENT ASSOCIATION.

'K-77' APPEARS STABLE AND UNIFORM FOR ALL OTHER CHARACTERISTICS THROUGH FOUR GENERATIONS OF INBREEDING.

Signature & Date Kenneth G. Nixon

PV No. 7800015 SOYBEAN 'K-77'

EXHIBIT B

'K-77' IS MOST SIMILAR TO 'CORSOY'. 'K-77' DIFFERS

FROM 'CORSOY' IN THE FOLLOWING CHARACTERISTICS:

MATURITY - 'K-77' is 4 DAYS LATER THAN 'CORSOY'

PLANT HEIGHT - 'K-77' IS 18 cm TALLER THAN 'CORSOY'

POD COLOR - 'K-77' HAS TAN PODS VS BROWN PODS OF 'CORSOY'

MATURITY AND PLANT HEIGHT WERE EVALUATED BY DR. GORDON J. RYDER, EXTENSION AGRONOMIST, DEPT. OF AGRONOMY, THE OHIO STATE UNIVERSITY, COLUMBUS, OHIO.

POD COLOR WAS EVALUATED BY MR. ROY O. BECKER, SECRETARY-MANAGER OF THE OHIO SEED IMPROVEMENT ASSOCIATION.

Signature & Date // // // Signature & Date // // // // // // Kenneth G. Nixon

FORM GR-470-2 (6-15-72)

## UNITED STATES DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE GRAIN DIVISION

HYATTSVILLE, MARYLAND 20782

EXHIBIT C

(Soybean)

# OBJECTIVE DESCRIPTION OF VARIETY SOYBEAN (GLYCINE MAX)

INSTRUCTIONS: See Reverse. SOTBEAN (GLYCINE M	4X)
NAME OF APPLICANT(S) KENNETH G. NIXON & LEONARD AND MARK KRIETEN	FOR OFFICIAL USE ONLY
ADDRESS (Street and No., or R.F.D. No.; City, State, and ZIP Code)	7800015
	VARIETY NAME OR TEMPORARY
R.F.D. #2, MANSFIELD, OHIO 44903	K-77 M
Place the appropriate number that describes the varietal character of	
1. SEED SHAPE:	this variety in the boxes below.
1 = SPHERICAL 2 = SPHERICAL 3 = ELONGATE	A = 0.THER (Co K.)
	4 = OTHER (Specify)
2. SEED COAT COLOR:  2 = GREEN 3 = BROWN 4 = BL	SHADE:
1 = YELLOW 2 = GREEN 3 = BROWN 4 = BL 5 = OTHER (Specify)	1 = LIGHT 2 = MEDIUM 3 = DARK
3. SEED COAT LUSTER: 4. SEED	SIZE
1 = DULL 2 = SHINY	GRAMS PER 100 SEEDS
5. HILUM COLOR:	SHADE:
1 = BUFF 2 = YELLOW 3 = BROWN 4 = GRAY 5 = IM	PERFECT
	ACK     1 = LIGHT 2 = MEDIUM 3 = DARK
	LET SIZE (See Reverse):
5	
1=YELLOW 2 = GREEN	1 = SMALL 2 = MEDIUM 3 = LARGE
8. LEAFLET SHAPE:	
1 = OVATE 2 = OBLONG 3 = LANCEOLATE 4 = ELLIPTIC	SAL 5 = OTHER (Specify)
9. LEAF COLOR (See reverse):	10. FLOWER COLOR:
1 = LIGHT GREEN 2 = MEDIUM GREEN 3 = DARK GREEN	1 = WHITE 2 = PURPLE
11. POD COLOR: 12: POD	TE 3 3 - OTHER (Specify)
[ ] ]	_
13. PLANT PUBESCENCE COLOR:	= SCATTERED 2 = CONCENTRATED
· ·	SHADE:
1 = GRAY 2 = BROWN 3 = OTHER (Specify)	1 = LIGHT 2 = MEDIUM 3 ≈ DARK
14. PLANT TYPES (See Reverse): 15. PLAN	IT HABIT:
	DETERMINATE 2 = INDETERMINATE
14 HVDACATVI CALAB.	PROTEIN:
2 1 = GREEN 2 = PURPLE	= A 2 = B
18. NUMBER OF DAYS TO FLOWERING 19. MATURITY GROUP:	
(Place a zero in first box (e.g. 0 9 ) when days are 9 or less.)	3 = 1 4 = 11 5 = 111
6 = iV 7 = v	8 = VI 9 = VII 10 = VIII
20. SIZE OF 10 DAY OLD SEEDLING GROWN UNDER CONSTANT LIGHT (Growth C (e.g. 0 2) when size is 9 mm. or less.)	hamber) AT 25° C. (Place a zero in first box
MM. LENGTH	ALS THE MM. WIDTH
21. DISEASE: (Enter 0 = Not Tested; 1 = Susceptible; 2 = Resistant)	OF COTYLEDON
BACTERIAL SOYBEAN DOWNY DURPLE	POD AND BOOT
PUSTULE CYST MILDEW STAIN	O POD AND PROOT
O FROGEYE O STEM PHYTO- O BROWN STEM ROT	TARGET O BROWN
BUD RACE I & C	4
BLIGHT O WILDFIRE TO ROT 6 OTHER (S	pecify)

ブ

CHARACTER	VARIETY MOST CLOSELY RESEMBLES THAT SU			CHARACTER		NAME OF VARIETY				
Plant shape		Corroy.			Petiole angle			Cortay		
Leaf shape	Haro		3		Seed	size	Z	farosoy 6	<u>'3</u>	
Leaf color		18 aruson 6 3			Seed s	hape				
Leaf surface	Corso	4			eedling <u>pi</u>	mentation		Corson		
GIVE DATA FOR	SUBMITTED AND	MILARIST	ANDARD VAR	HETY:		· · · · · · · · · · · · · · · · · · ·	<u> </u>			
	NO. OF DAYS	NO. OF DAYS LODGING	PLANT LE	LEA	FSIZE	CONT	TENT	AVERAGE NO. OF PODS PER	IODINE NO	
VARIETY				Width	Length	Protein	Oil	PLANT	,00,142 1401	
Submitted	132	2-3	110 CM	1244	/4MM		%	48		
me of similar variet	у				Ĭ			,		

## INSTRUCTIONS

GENERAL: The following publications may be used as a reference aid for completing this form:

- 1. Scott, Walter O. and Samuel R. Aldrich, 1970, Modern Soybean Production, The Farmer Quarterly.
- 2. Norman, A. G., 1963, The Soybean: Genetics, Breeding, Physiology, Nutrition, Management.
- 3. McKie, J. W., and K. L. Anderson, 1970, The Soybean Book.

LEAF COLOR: Nickerson's or any recognized color fan may be used to determine the leaf color of the described variety. The following Soybean varieties may be used as a guide to identify the colors listed on the form.

COLOR	VARIETY
Light Green	''Ada''
Medium Green	"Wilkin"
Dark Green	''Swift''

LEAF SIZE: The following varieties may be used as a guide to identify the relative size leaves.

SIZE		VARIETY
Small		''Amsoy''
Medium	·	"Bonus"
Large	•	''Anoka''

PLANT TYPE: The following varieties may be used as a guide to identify the plant type.

TYPE	VARIETY
Slender	''Vansoy''
Intermediate	''Wirth''
Bushy	''Adelphia''



